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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/678,948
Filing Date	10/03/2003
First Named Inventor	Robert J. Shields
Art Unit	3643
Examiner Name	
Total Number of Pages in This Submission: 5	Attorney Docket Number: OCI-101

ENCLOSURES *(Check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment/Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☑ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s) _____
- ☐ After Allowance communication to Technology Center (TC)
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- ☐ Proprietary Information
- ☐ Status Letter
- ☐ Other Enclosure(s) (please Identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Dr. Ron Jacobs, Reg. No. 50,142
Signature	
Date	7/6/04

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name	SYLVIA LEE		
Signature		Date	7/6/04

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Attorney Docket No: **OCI-101**

In the United States Patent and Trademark Office

Application No.: 10/678,948
Filed: 10/03/2003
Title: "The Isolation, Culture, and Use of Marine Copepods In Aquaculture"
Applicant(s): Robert J. Shields et al.
Examiner: Not Yet Assigned
Art Unit: 3643

Mailed 7/6/04
Palo Alto, CA

Information Disclosure Statement

Commissioner of Patents and Trademarks
Alexandria, VA 22313

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon. It is requested that the document(s) on the enclosed form be made of record.

Part I (Authority)

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).
This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; or (3) before the mailing date of a first office action on the merits, whichever event occurs last.
Accordingly, this information disclosure statement requires no fee and no certification.

( ) 37 C.F.R. § 1.97(c).
This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.
Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) ($180), or a certification according to 37 C.F.R. § 1.97(e).

( ) 37 C.F.R. § 1.97(d).
This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).
Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) ($180), a certification according to 37 C.F.R. § 1.97(e), and a petition requesting consideration of the information disclosure statement.

Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

Part II (Payment)

A check is enclosed as indicated:

(X) No fee is due.

( ) The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed ($180).

( ) The petition fee specified in 37 C.F.R. § 1.17(i)(1) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed ($180).

Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

(X) No certification is necessary.

( ) (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.

( ) The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.

( ) The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.

( ) (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Part IV (Additional Statement)

An additional statement regarding these items of information ( ) is, (X) is not, enclosed.
Copies of the cited documents (X) are enclosed, ( ) are of record in parent application Serial No. _____ and will be provided if the Examiner deems it convenient.

Respectfully submitted,

Dated:

7-2-2004

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FORM PTO-1449U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO. OCI-101	SERIAL NO. 10/678,948
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT Robert J. Shields et al.	
	FILING DATE 10/03/2003	GROUP 3643

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	RELEVANT INFORMATION

OIPE JUL 0 9 2004 PATENT & TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

		2-letter code	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	TRANSLATION NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A1		Benetti, D.D., 2001. Mesocosm systems for semi-intensive larval rearing of marine fish. The Advocate, February 2001, 17-18.
	A2		Dhert, P, Divanach, P, Kentouri, M and Sorgeloos, P, 1998, Rearing Techniques for Difficult Marine Fish Larvae. World Acquaculture 48-55
	A3		Divanach, P. and Kentouri, M., 2000. Hatchery techniques for species diversification in Mediterranean finfish larviculture. Cahiers Options Mediterraneenes 47, 75-88.
	A4*		Doi, M., Toledo, J.D., Golez, M.S.N. Ohno, A., 1997. Preliminary investigation of feeding performance of larvae of early red-spotted grouper, *Epinephelus coiodes*, reared with mixed zooplankton. In, A. Hagiwara, T.W. Snell, E. Lubzens and C.S. Tamaru, Eds: Live Food in Aquaculture, Proceedings of the live food and marine larviculture symposium, Japan, September 1-4, 1996. Hydrologia 358, 259-63
	A5		Heath, P.L. and Moore, C.G., 1997. Rearing Dover sole larvae on *Tisbe* and *Artemia* diets. Aquaculture International 5, 29-39.
	A6		Liao, I., Su, H.M. and Chang, E.Y., 2001. Techniques in finfish larviculture in Taiwan. Aquaculture 200, 1-31.
	A7		Lipman, E.E., Kao, K.R. and Phelps, R.P., 2001. Production of the copepod *Oithona* sp. under hatchery conditions. Aquaculture 2001. Abstracts of contributions presented at Aquaculture 2001 including Annual meeting of the National Shellfish Association, Annual Meeting of the Fish Culture Section of AFS, World Aquaculture 2001-The Annual International Meeting of WAS, p 379.
	A8		Marshall, A.J. and Purser, G.J., 1999. The use of temperate harpacticoid copepod nauplii as a first feed for flounder larvae (*Rhombosolea tapirina*). World Aquaculture '99. Abstracts of contributions presented at the annual international conference of the World Aquaculture Society, p 493.
	A9		MacKinnon, A.D., Duggan, S., Nichols, P.D., Rimmer, M.A., Semmens, G., and Robino, B. 2003, The potential of tropical paracalanid copepods as live feeds in aquaculture. Acquaculture 223, 89-106
	A10*		Murray, M. and Marcus, N.H. Maximizing copepod egg production: The effect of different algal diets on survival and fecundity of the copepod, Centropages hamatus. Abstracts of contributions presented at the *** , p. 235
	A11		Ogle, J., Lotz, J., Nicholson, C. and Barnes, D., 2000. Larval culture of red snapper *Lutjanus campechanus* using copepod nauplii for first feeding. Aquaculture America 2000, Abstracts of contributions presented at the annual conference of the NAA, USASA and US Chapter of the WAS, p 249.

	A12		Payne, M.F. and Rippingale, R.J., 2001. Intensive cultivation of the calanoid copepod *Gladioferens imparipes*. Aquaculture 201, 329-342.
	A13		Payne, M.F. and Rippingale, R.J. 2000. Evaluation of diets for culture of the calanoid copepod Gladiioferens imparipes. Aquaculture 187, 85-96.
	A14		Schipp, G.R., J.M.P.Bosmans, and A.J.Marshall, 1999. A method for hatchery culture of tropical calanoid copepods, *Acartia* spp. Aquaculture 174: 81-88.
	A15		Schipp,G.R., J.M.P.Bosmans and D.J. Gore, 2001. A semi-intensive larval rearing system for tropical marine fish. In, C.I. Hendry, G. van Stappen, M. Wille and P. Sorgeloos (Editors), European Aquaculture Society Special Publication No. 30: Larvi 2001, 3rd Fish and Shellfish Larviculture Symposium, Ghent, Belgium, pp 536-539.
	A16*		Shields, R.J., Bell, J.G., Luizi, F. Gara, B., Sargent, J.R. and Bromage, N.R., 1999. Natural copepods are superior to enriched *Artemia* nauplii as feed for halibut larvae (*Hippoglossus hippoglossus*) in terms of survival, pigmentation and retinal morphology: relation to dietary essential fatty acids. Amer. Soc. for Nutritional Sciences, 1186-94
	A17		Shields, R.J., 2001. Larviculture of marine finfish in Europe. Aquaculture 200, 55-88.
	A18		Støttrup, J.G., Richardson, K., Kirkegaard, E. and Pihl, N.J., 1986. The cultivation of *Acartia tonsa* Dana for use as a live food source for marine fish larvae. Aquaculture 52, 87-96.
	A19		Støttrup, J.G. and Norsker, N.H., 1997. Production and use of copepods in marine fish larviculture. Aquaculture 155, 231-247.
	A20		Støttrup, J., 2000. The elusive copepods: their production and suitability in marine aquaculture. Aquaculture Research 31, 703-711.
	A21		Toledo,J.D., M.Golez, M.Doi, and A.Ohno, 1999. Use of copepod nauplii during early feeding stage of grouper *Epinephelus coioides*. Fisheries science 65: 390-397.
	A22		Urup, B. and Maximus, S.A., 1994. Methods for the production of turbot fry using copepods as food. In, P. Lavens and R.A.M. Remmerswaal, Turbot culture: problems and prospects. Proceedings of the satellite workshop of World Aquaculture '93, 25-27 May 1993, Torremolinos, Spain. European Aquaculture Society Special Publication No. 22, 47-53.
	A23		Van der Meeren T. and Naas, K., 1997. Development of rearing techniques using large enclosed ecosystems in the mass production of marine fish fry. Reviews in Fisheries Science 5, 367-390.

* References not included in the specification or not correctly cited.

EXAMINER	**DATE CONSIDERED**

*** EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.